

TECHNICAL DATA SHEET

CyFlow™ CD157 Purified Anti-Hu; Clone SY11B5

REF BL703390

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD157
Alternative Names	BST-1, BST1, BP-3/IF7, Mo5
Clone	SY11B5
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human CD157

Specificity

The mouse monoclonal antibody SY11B5 recognizes CD157 antigen, a 45 kDa GPI-anchored protein expressed mainly on monocytes, macrophages, granulocytes and bone marrow stromal cells.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (frozen sections)

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD157 (cADPr hydrolase 2) is a GPI-anchored ectoenzyme possessing ADP-ribosyl cyclase and cyclic ADP-ribose hydrolase activity. It uses NAD and cADP-ribose as substrates. CD157 is expressed on granulocytes, monocytes, macrophages, follicular dendritic cells, bone marrow stromal cells and human umbilical cord vein endothelial cells. In case of rheumatoid arthritis its expression is often higher and it is also differentially expressed in the myeloid leukemias. It may also have a signaling role.

References

- Sutherland R, Acton E, Keeney M, Borowitz M, Richards S, Fletcher M, Whitby L, Barnett D, Illingworth A: Recommended antibody clones and conjugates suitable for high-sensitivity flow cytometric detection of PNH Red (RBC) and White (WBC) Blood Cells. Cytometry Part B: Clinical Cytometry. 2013 Nov 1; 84(6):422-3. < No PMID >
- Sutherland DR, Acton E, Keeney M, Davis BH, Illingworth A: Use of CD in FLAER-based assays for high-sensitivity PNH granulocyte and PNH monocyte detection. Cytometry Part B: Clinical Cytometry. 2014 Jan 1; 86(1):44-55. < PMID: 23922226 >
- Marinov I, Kohoutová M, Tkáčová V, Pešek A, Čermák J, Cetkovský P: Clinical relevance of CD for rapid and cost-effective simultaneous evaluation of PNH granulocytes and monocytes by flow cytometry. Int J Lab Hematol. 2015 Apr; 37(2):231-7. < PMID: 24963875 >

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- Arriga R, Caratelli S, Coppola A, Spagnoli GC, Venditti A, Amadori S, Lanzilli G, Lauro D, Palomba P, Sconocchia T, Del Principe MI: Enhancement of anti-leukemia activity of NK cells in vitro and in vivo by inhibition of leukemia cell-induced NK cell damage. Oncotarget. 2016 Jan 12; 7(2):2070. < PMID: 26655503 >
- Marinov I, Illingworth AJ, Benko M, Sutherland DR: Performance characteristics of a non-FLAER-based PNH assay for simultaneous evaluation of PNH neutrophils and PNH monocytes by flow cytometry, following published PNH guidelines. Cytometry B Clin Cytom. 2016 Jun 13; < PMID: 27294344 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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